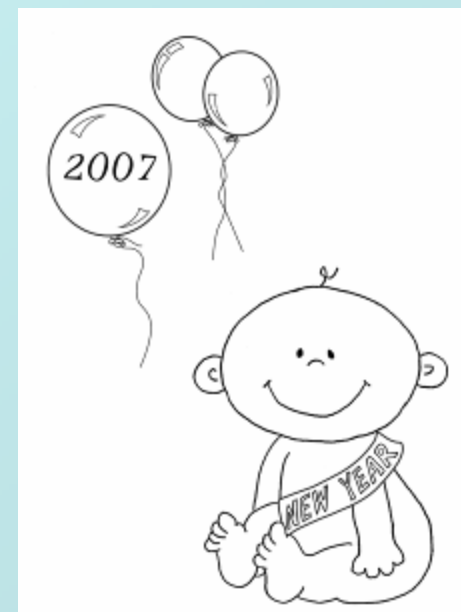


# PHENIX WEEKLY PLANNING



12/28/06  
Don Lynch

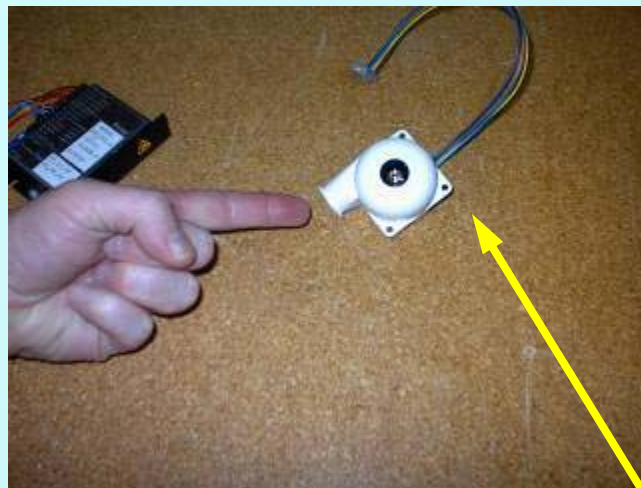


# Commissioning in Progress

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# HBD Electronics Cooling

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## Still Needed for Approval to Operate:

- Where will fan(s) be mounted? - *CM base "cubby hole"* fan model and specs to be forwarded to Safety
- Written design and operation description and- *To be forwarded to Safety*
- Order for 5 blowers & drivers (4 +1 spare) is in the works 1 set Received, 3 sets shipped 12/18, 1 set back ordered.



Blower

Speed Controller

# 4 X BD<sup>2</sup> Electronics Cooling

30 V, 10 Amp Power Supply  
(~1.5 Amps per blower)

Enclosure box  
with inlet filter

To HBD East  
North side

To HBD East  
South side

To HBD West  
North side

To HBD West  
South side

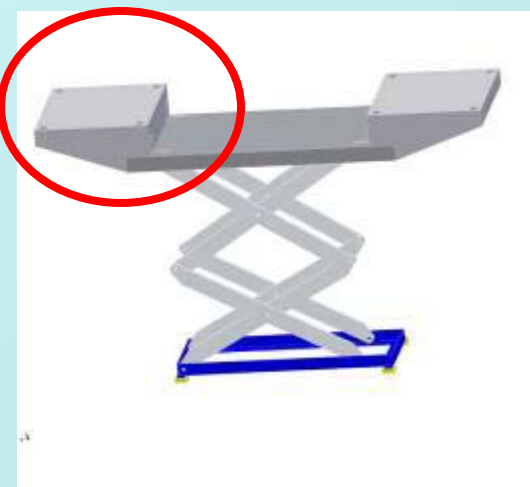
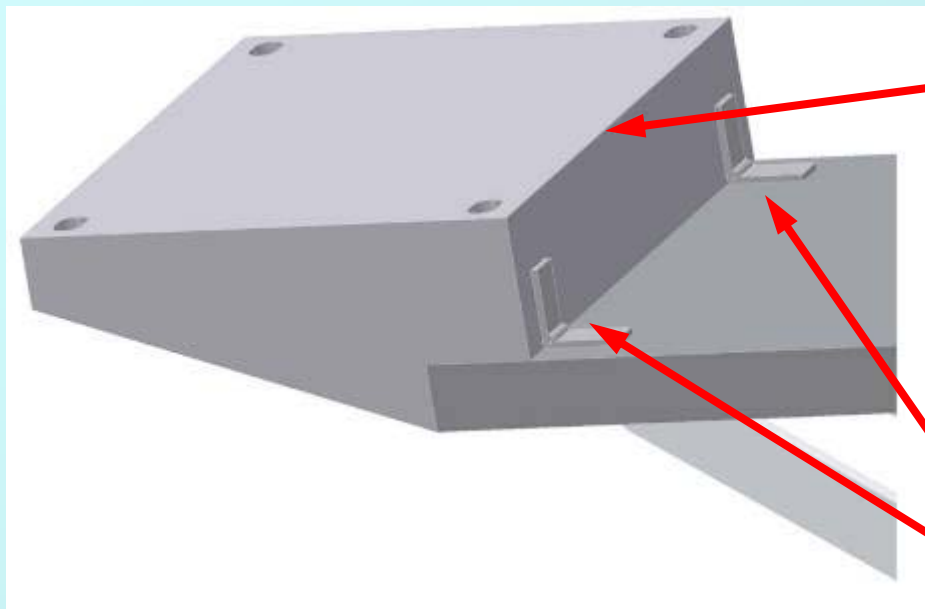
Mini Blowers

Blower Speed Controllers



# CM Lift Table

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Hinges on wing steps



# Remaining Schedule

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	Start	Complete
<b>TOF West, RXNP, MPC N</b>		
Electronics Installation/Commissioning	in progress	12/30/06
<b>HBD</b>		
HBD preamp cooling system (temporary LN2 system in-place)	10/1/06	12/30/06
Electronics Installation/Commissioning	11/1/06	12/30/06
<b>Crane Inspection</b>	12/27/06	12/28/06
<b>MuID commissioning</b>	1/8/07	1/15/07



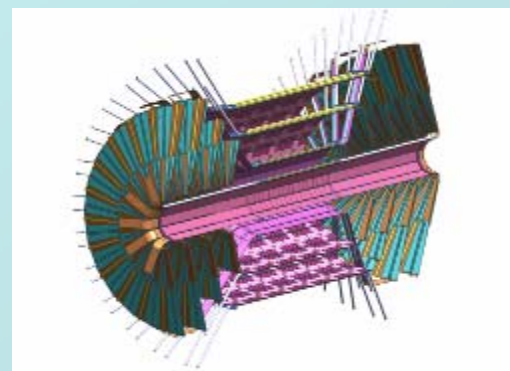
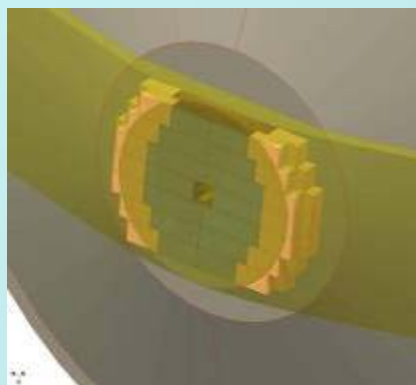
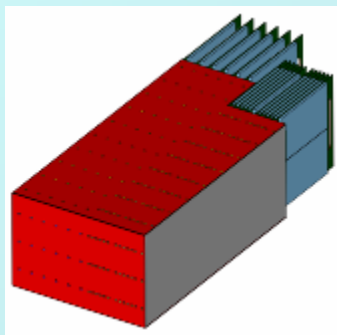
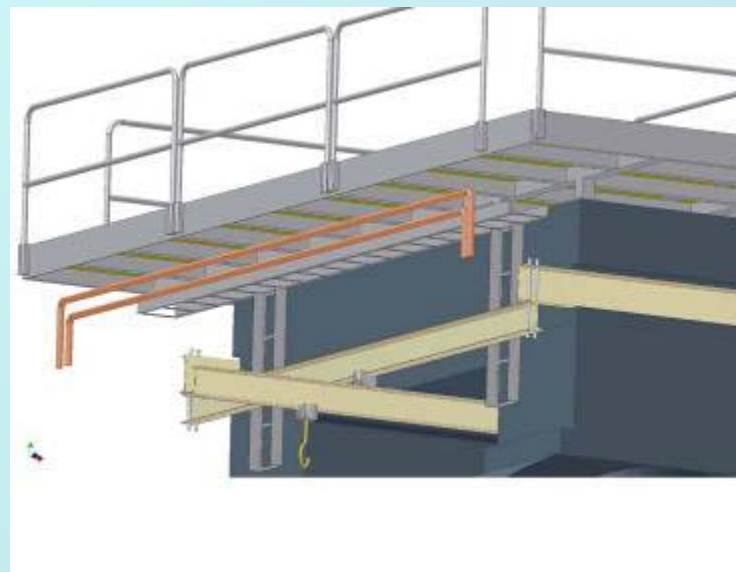
# Remaining Schedule (cont'd)

	Start	Complete
Pink Sheeting & Blue Sheeting	Done	Done
Move MMS full North	Done	Done
Rebuild Rolling door	Done	Done
Close rolling door	Jan 8	Jan 8
Start Flammable Gas Flow & 2 man watch shif	Jan 9	Jan 9
All Up Commissioning/ Cosmic Ray Run /	RS+1 D	RS+3 W
Install beam pipe collar	RS-1 W	RS-2 D
RHIC Cooldown Begins	RS	RS
Beam in yellow ring	RS+1 W	RS+1 W
Beam in blue ring	RS+2 W	RS+2 W
RHIC beam conditioning	RS+3 W	RS+3 W
Shutdown Concluded/Start of Physics Run	RS+3 W	RS+3 W



What's up for next year and beyond

- New CM Crane
- New Beam pipe design
- Muon RPC trigger design
- VTX/FVTX design
- NCC design
- MuTr upgrade
- Infrastructure improvements





# PHENIX Annual Safety Review

## Follow Up: Action Items

- Inspect and approve the new access to the PHENIX bridge platform. (Etkin/ Cirnigliaro, done)
- Carry out the pink sheeting of all racks. (Haggerty / Giannotti, Nov. 16, 2006) (done)
- Carry out the Blue Sheeting (CAS, Pearson, done)
- Add to the Blue sheeting the requirement that the new PHENIX crash button should be tested annually (Pearson done)
- Provide the new flammable gases leak rates (Pisani, Dec 30, 2006)
- Review and approve the new TOFW re-circulating gas system (Etkin Jan. 15, 2006)
- For the HSB gas transparency system check that the associated electrical systems are NRTL certified. (Giannotti, Dec 30, 2006)
- Update the PHENIX sweep procedures (Sampson, done?)
- Determine if additional crash cords are required on the new platforms (Asher Etkin and PASS, done)
- Provide J. Levesque the manufacturer's flammability rating of the PHENIX bridge cover or mat. (Lynch, Dec. 15, 2006) (done and approved)
- Review the proposed HBD electronics cooling. (Pearson / Makdisi, done?)
- Review the SEU (single event upset) test. (Makdisi done?)

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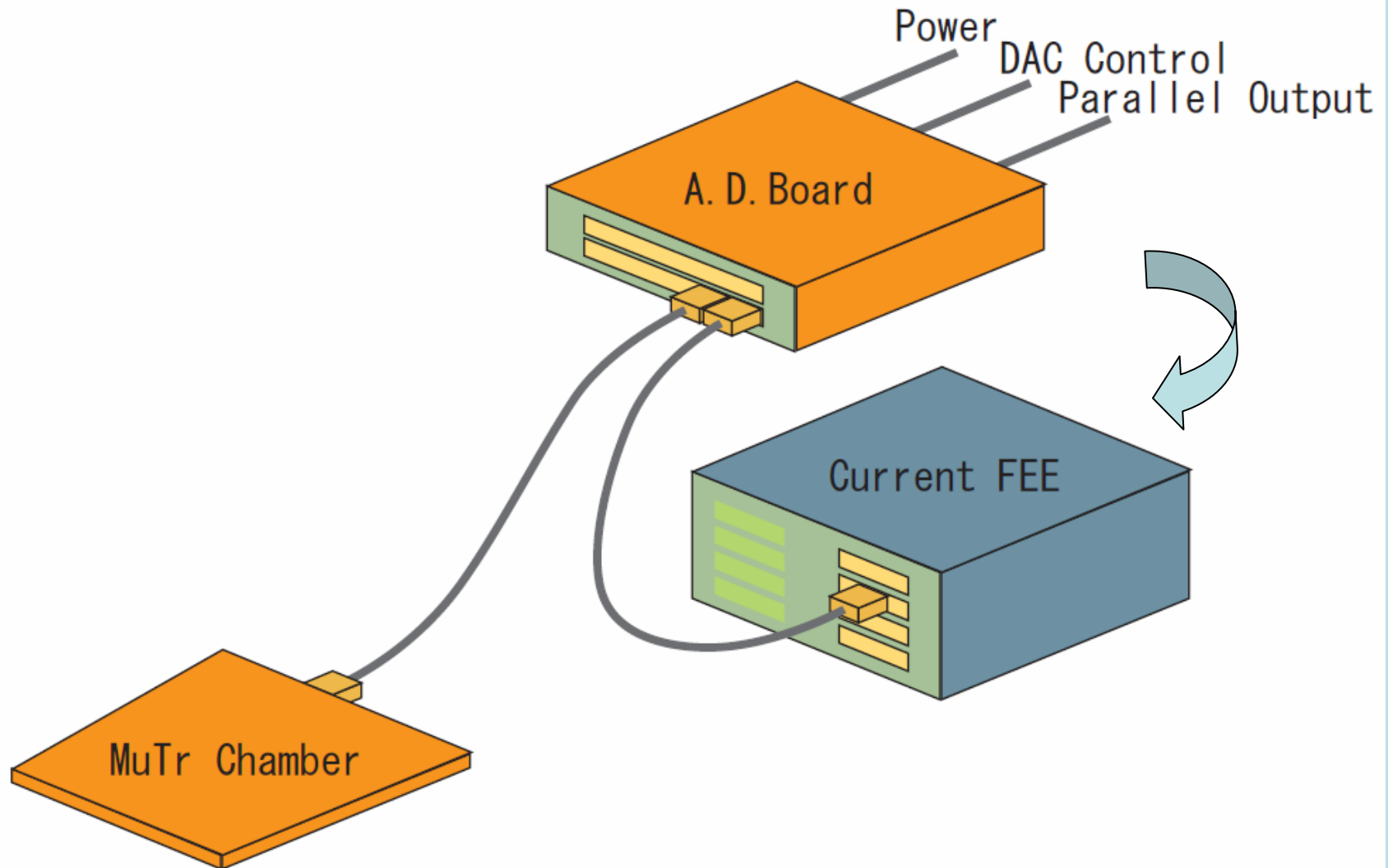
# PHENIX Annual Safety Review

## Follow Up: Action Items

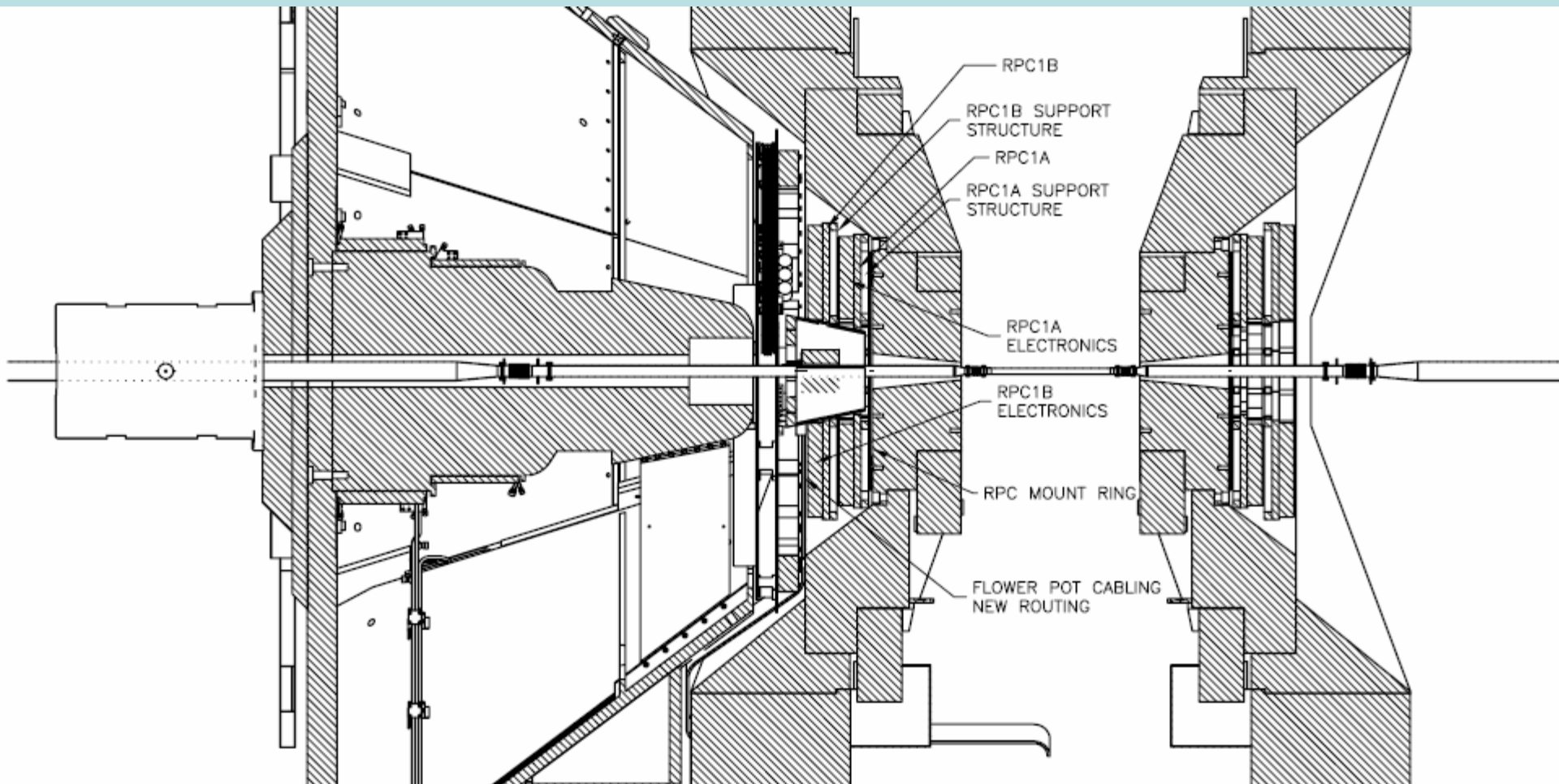
### General:

- Update the PHENIX ECR. (Essendelft, Dec. 30, 2006) (done)
- Carry out a magnetic safety review and measure the magnetic field on the bridge platform (Cirnigliaro / Pearson, Dec. 30, 2006) (done)
- Update the PHENIX emergency procedure. (Franz / Makdisi, done?)
- A walk through of the PHENIX detector prior to introduction of flammable gas. (Makdisi, done)
- Update the documented work procedures. (O'Brien / Lynch, Feb 1, 2007)
- Establish trained PHENIX watch shifts. (O'Brien, Jan. 9, 2007)

# ADBoard Installation

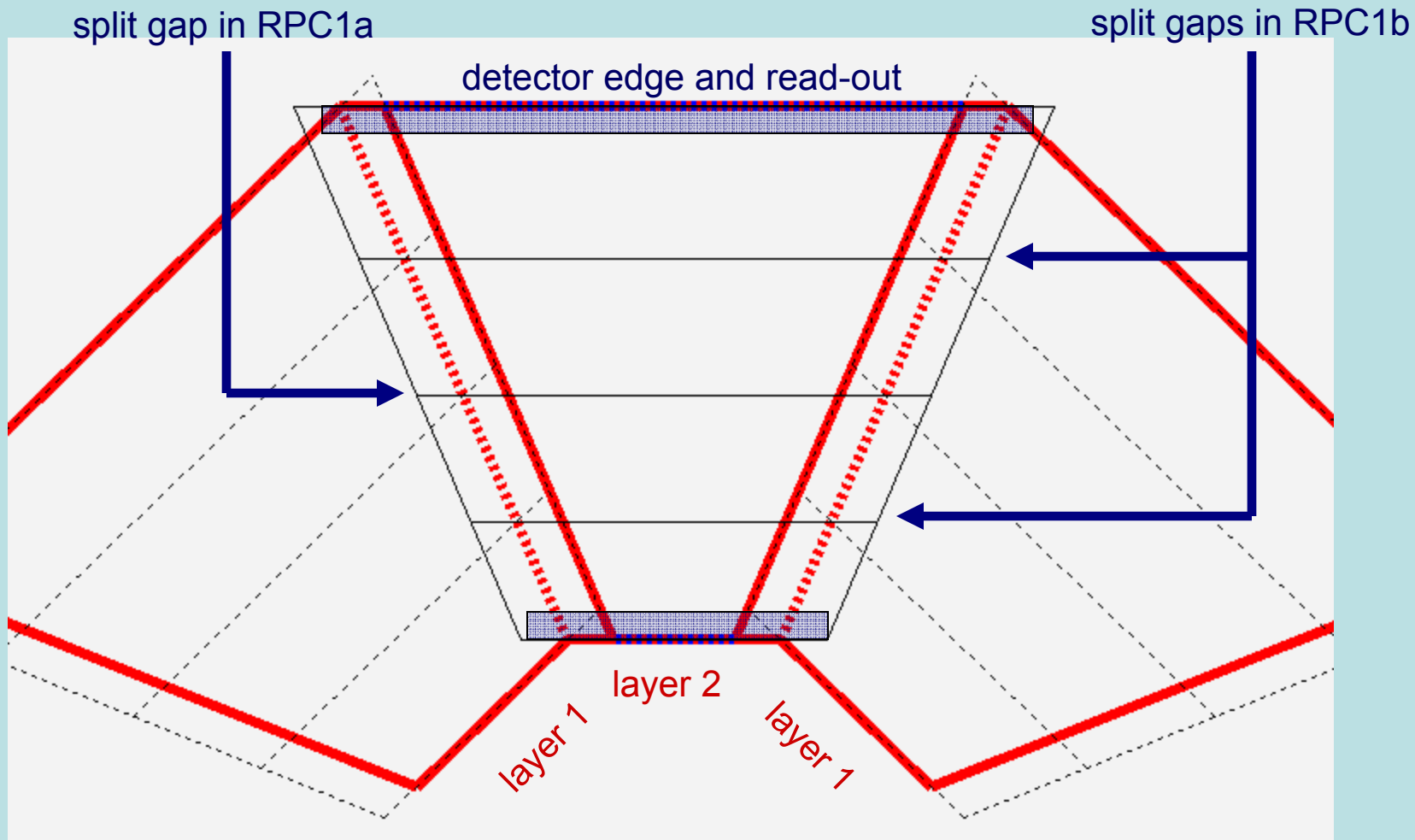


# RPC1 Section View



# RPC1a&b

cover octants with one detector  
module  
overlap in  $\phi$   
staggered split gaps  
additional dead area in  $\theta$





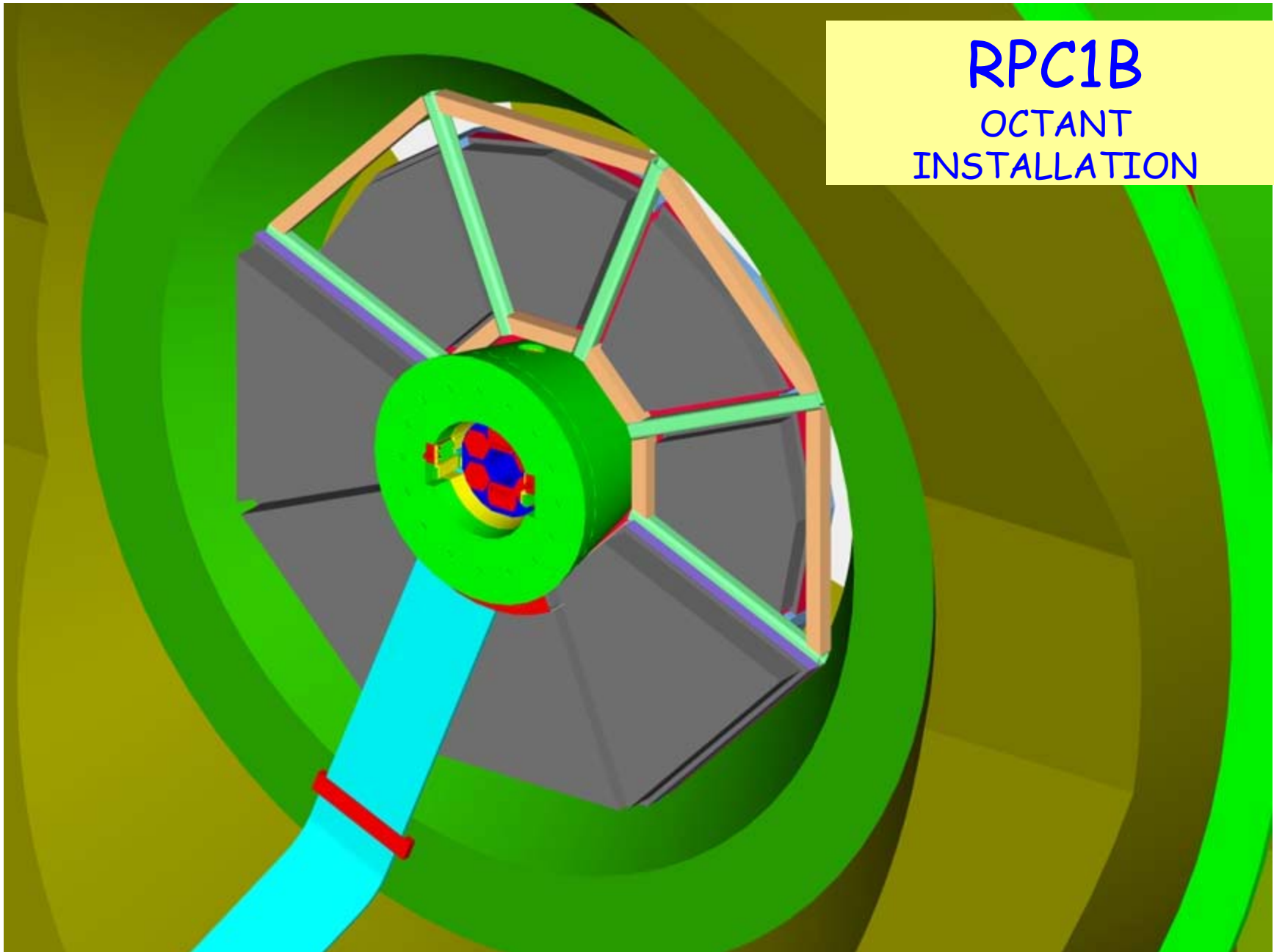
## TUNGSTEN INSTALLATION



# RPC1B

## OCTANT

### INSTALLATION

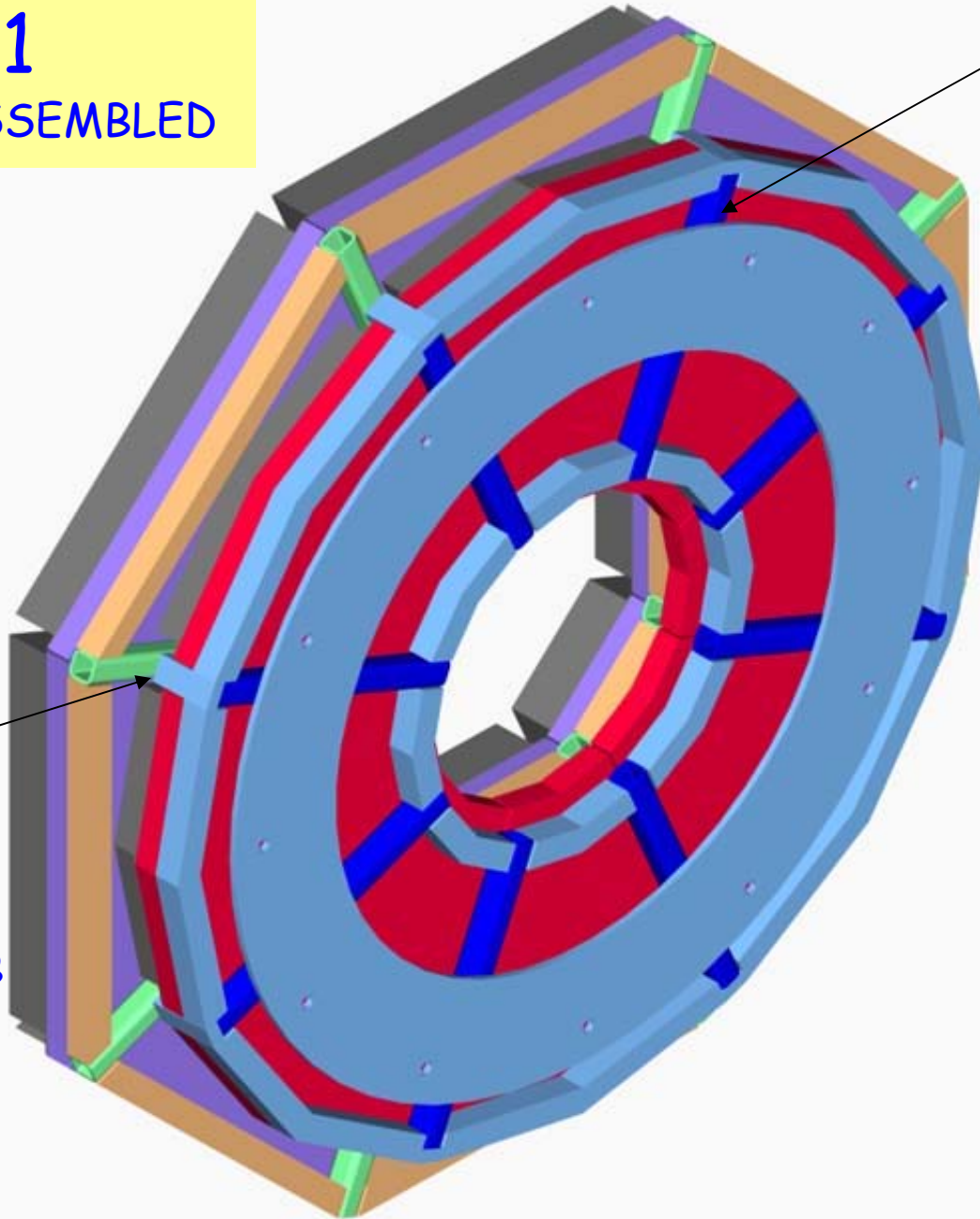


# RPC1

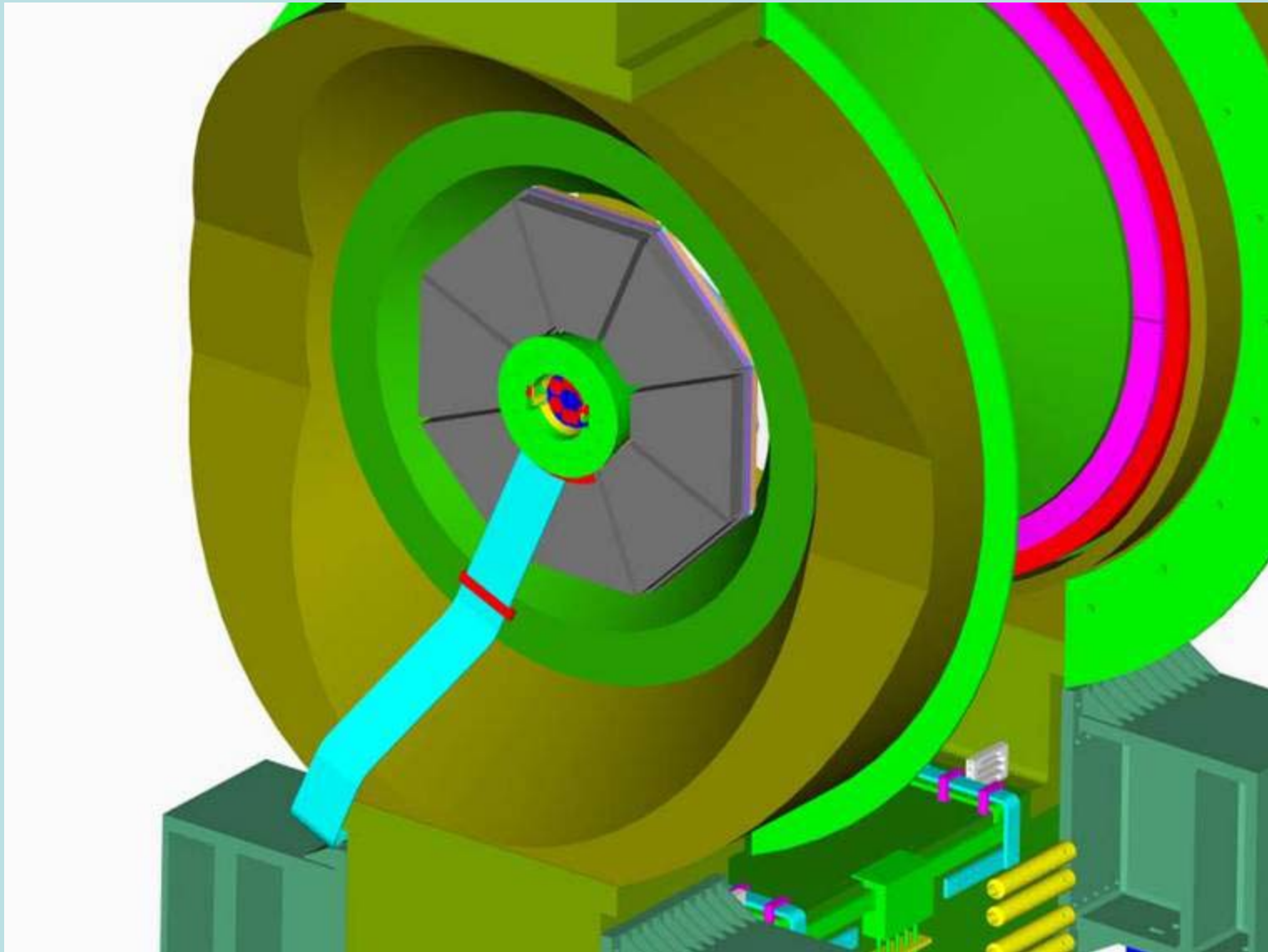
UPSTREAM ASSEMBLED

$\frac{1}{2}$ " SPACERS  
HAVE  
BEEN  
REMOVED

RPC1A  
ELECTRONICS  
BOXES ARE  
NESTED IN  
BETWEEN RPC1B  
STRUCTURE

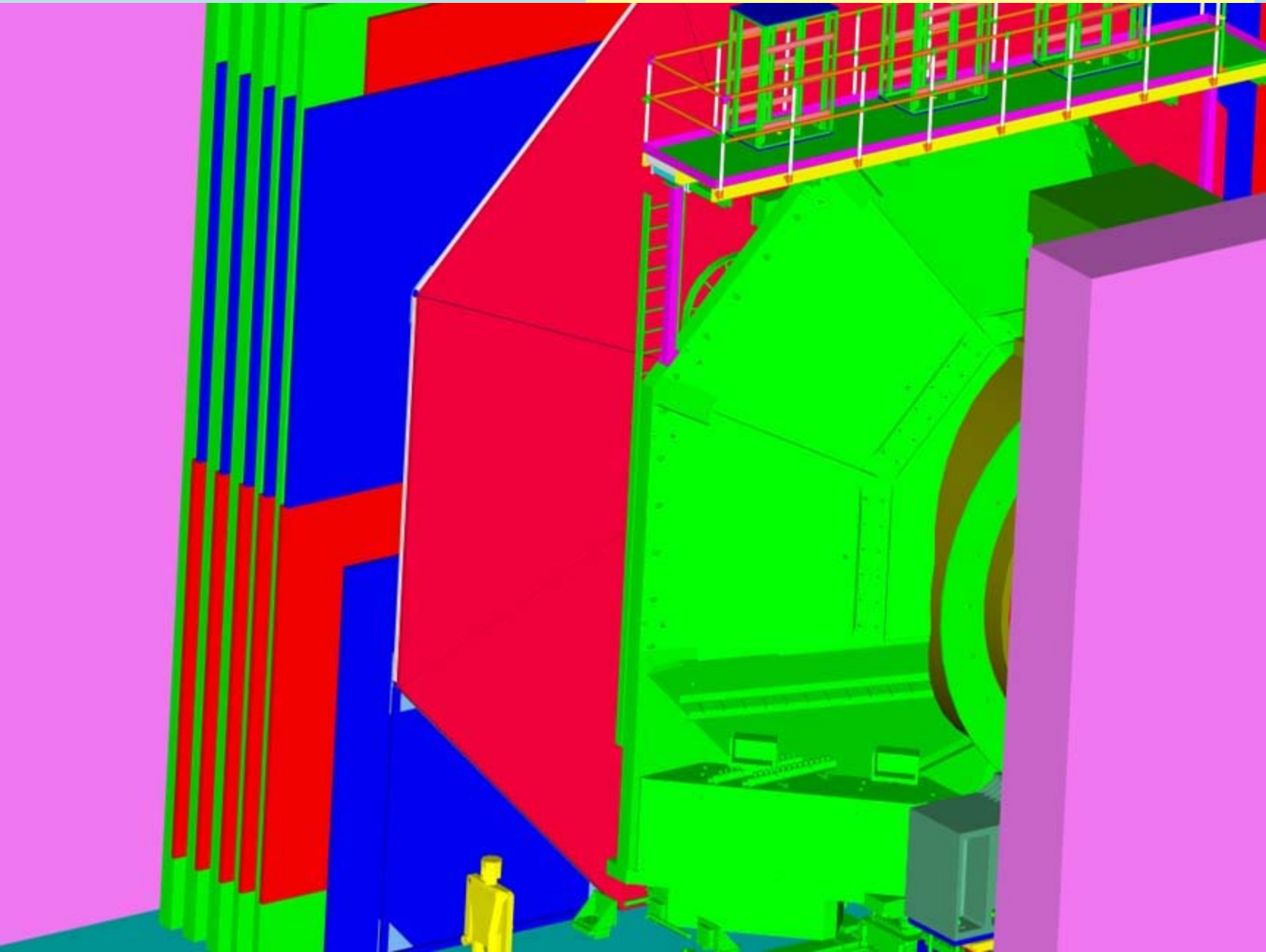


# SOUTH RPC1 INSTALLED



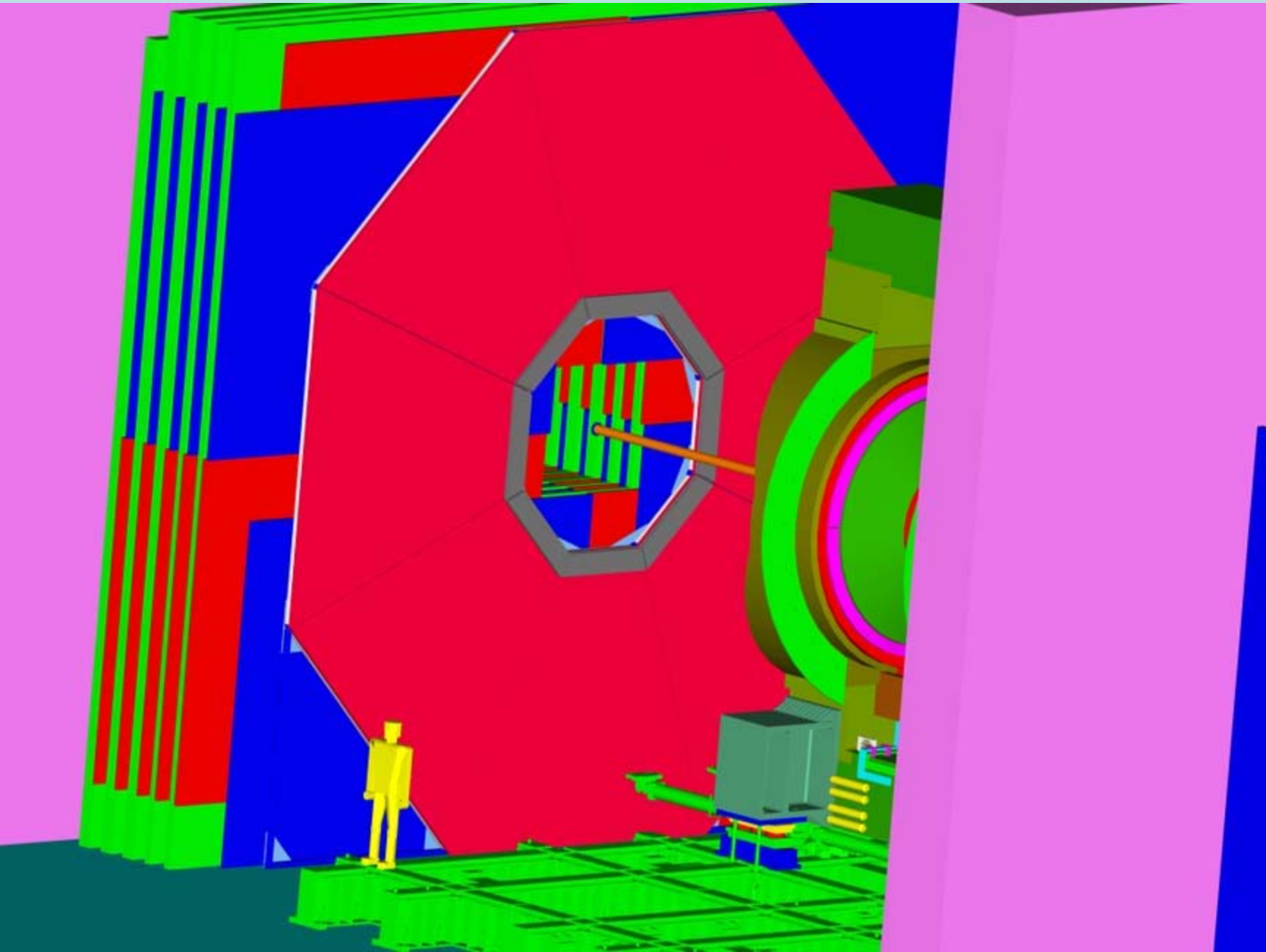


## SOUTH RPC2 - WITH SOUTH muTR

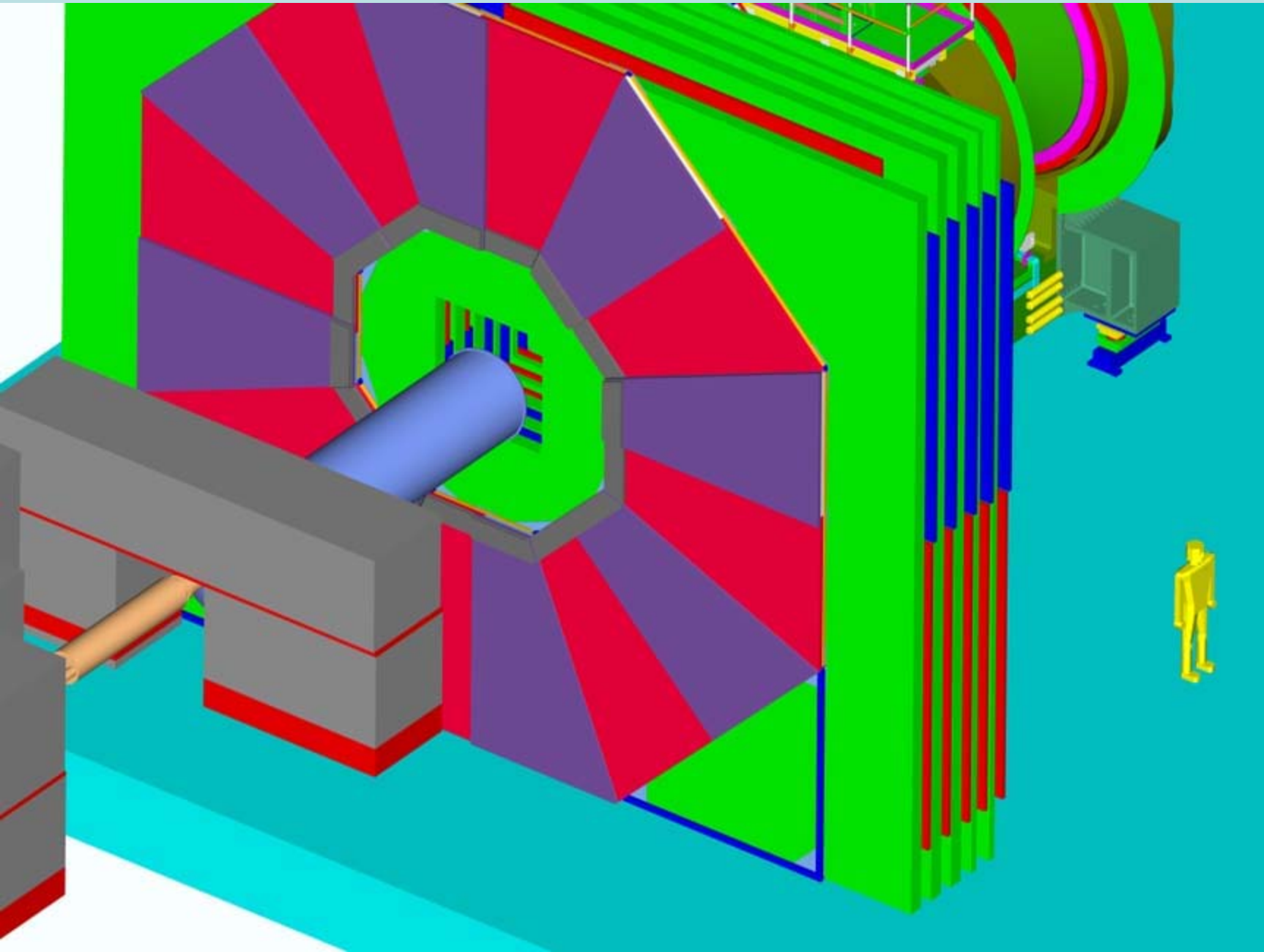




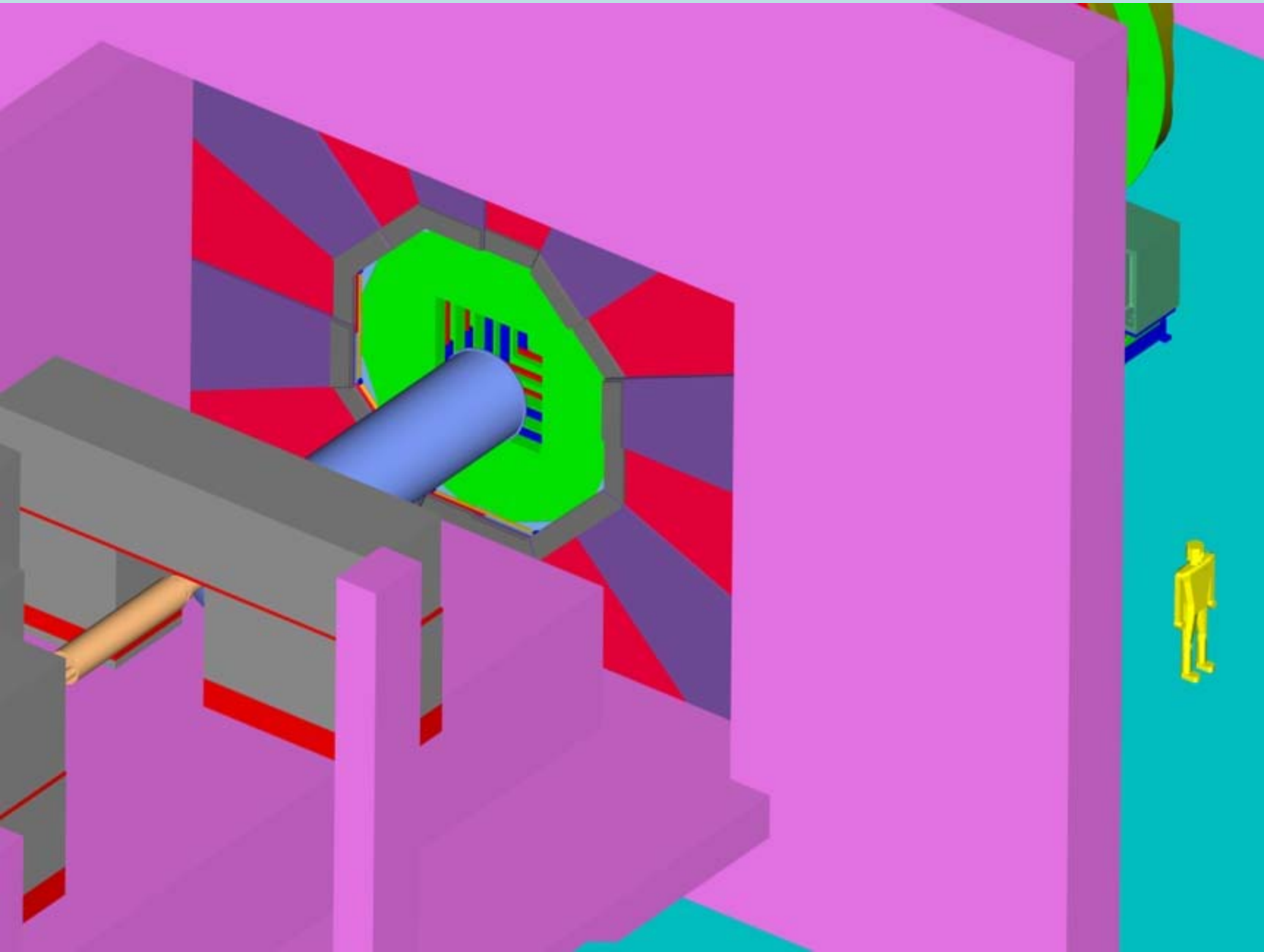
## SOUTH RPC2 - WITHOUT SOUTH $\mu$ TR



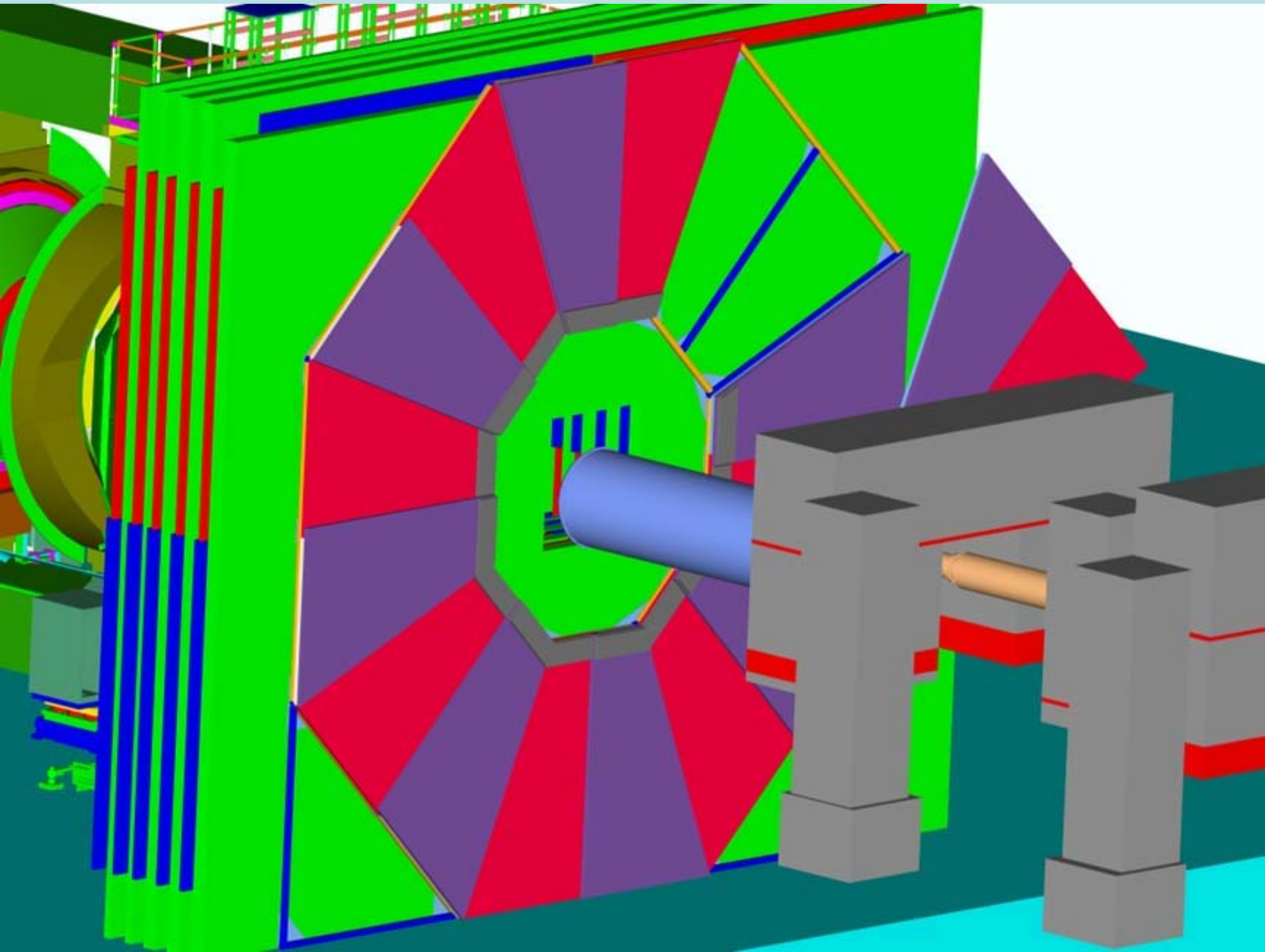
## SOUTH RPC3 - WALL TURNED OFF



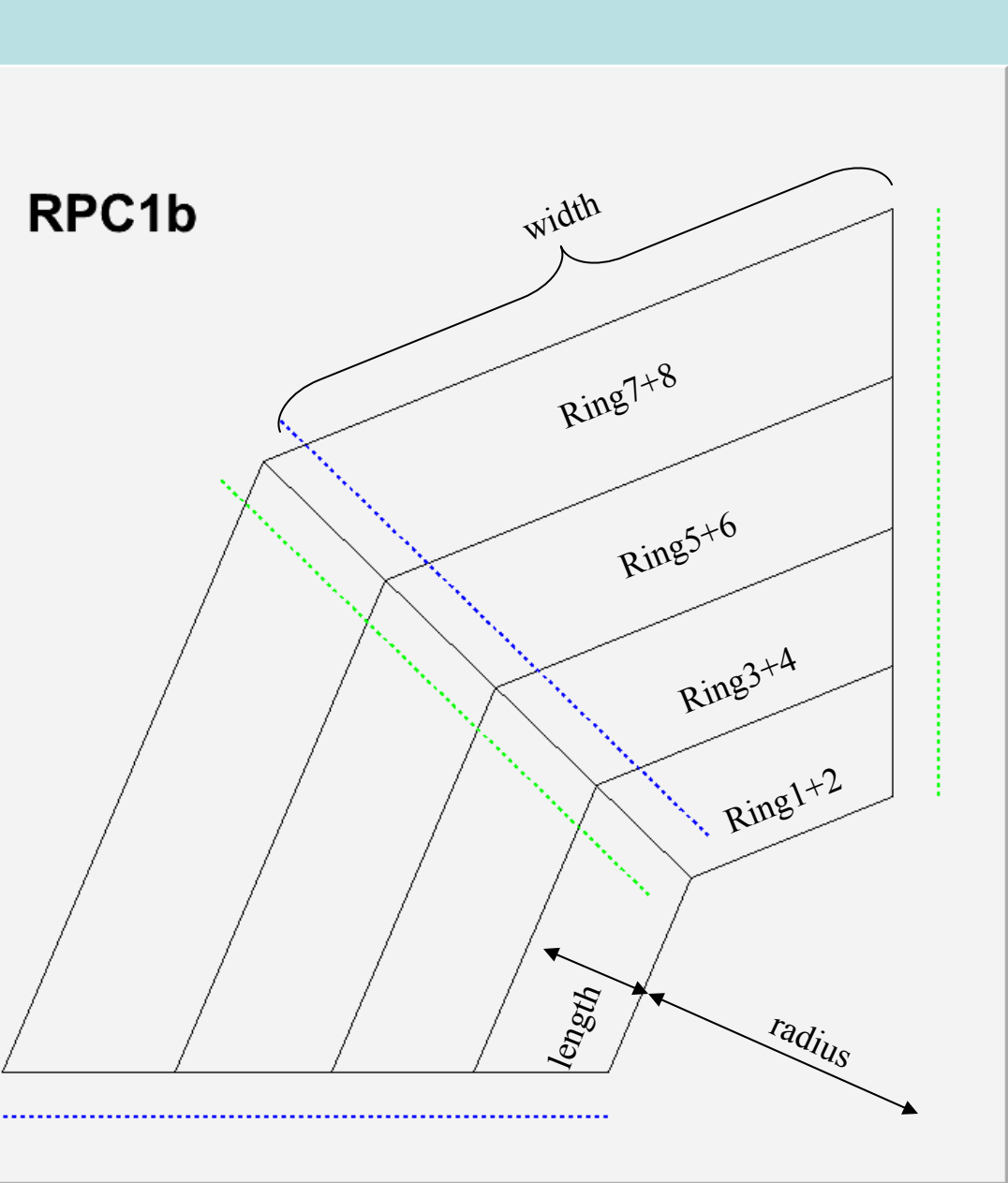
## SOUTH RPC3 - WALL TURNED ON



## SOUTH RPC3 - OCTANT REMOVED



- $\phi$  acceptance most important  $\rightarrow$  overlap octants by 6cm each  $\rightarrow$  height: 56 mm
- Instead of 8 rings 4 rings  $\rightarrow$  two split gaps between ring1+2/ring 3+4 and ring 5+6/ring 7+8



		RPC1b	
	theta (deg)	radius	width
possible			
	34.45	1068.6	885.3
ring 8		strips: 208.5 x 12.0 (74)	
	31.69		
ring 7			
	28.92	860.9	713.2
ring 6		strips: 186.6 x 12.0 (60)	
	26.16		
ring 5			
	23.40	674.2	558.6
ring 4		strips: 171.7 x 12.0 (47)	
	20.64		
ring 3			
	17.88	502.6	416.3
ring2		strips: 161.3 x 12.0 (35)	
	15.12		
ring1			
	12.36	341.3	282.7
possible			
		split gaps: ring 2 and 3 + ring 6.and 7	



# Infrastructure Work

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CAD/RHIC PHENIX infrastucture related mechanical and electrical support

Roof leak repairs

Door Latch maintenance for security

Run 7 prep support

?

*Requested*

*On-going*





## Trailer repairs



12/21/06

Weekly Planning Meeting

25

# Trailer Work Areas



12/21/06

Weekly Planning Meeting

26

# This Week/ Next Week

- Bowl Games (Monday New Year's Holiday)
- HBD, TOF W, RXNP, MPC N electronics commissioning
- HBD (BD)<sup>2</sup> [=H(BD)<sup>3</sup>?] fabrication/test/installation
- PHENIX Procedure review continued
- Prepare for run 6.9 → 7
- Interlocks for CM Lift table [Up is done, Down is in progress], wing hinges

# New Business

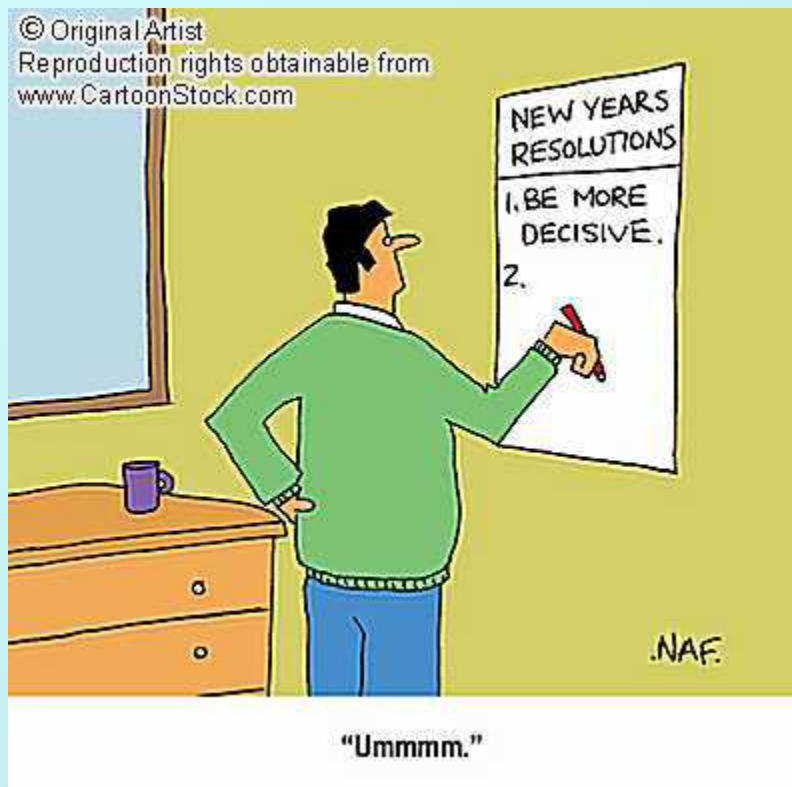


Get your requests in early  
for shutdown 2007 work





# Where To Find PHENIX Technical Info



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:

[http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL\\_SSint-page.htm](http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm)